



A high-performance sleeve specially designed for sealing of joints in pre-insulated pipe systems using heat shrinkable casings or oversized casings.

Product description

RJS-E for sealing of pre-insulated pipe joints

Adhesives: Visco-elastic sealant & high shear-strength, thermoplastic copolymer adhesive.

Backing: Radiation cross-linked, high density polyethylene with **PCI (permanent change indicator)**

RJS-E is suitable for most standard pipe jackets and for most standard joint types (oversized casings, shrink casings and crosslinked shrink casings).

Here is how it works:

- A visco-elastic sealant in the middle acts as a primary moisture seal.
- An anti-slip zone keeps the sleeve in place during installation.*
- A high shear-strength, thermoplastic adhesive at each side of the sleeve provides mechanical anchoring and acts as an additional seal.
- Dimpled backing provides a Permanent Change Indicator (PCI) for the complete sleeve.

During shrinking, the visco-elastic sealant in the middle easily melts and flows, filling in the transition between the pipe jacket and the casing. The copolymer adhesive seals off and anchors the sleeve at its both edges.

* only for product widths 230 and 300 mm.

Product features/benefits

- **Permanent Change Indicator (dimpled backing)**
Ensures correct application heat & allows easy post-heat inspection.
Reliable inspectability at any time.
- **Visco-elastic sealant**
Allows for axial movements & outer casing expansion stresses.
- **High shrink force HDPE backing**
Provides strong, permanent bond & keeps sleeve in place.
- **Low water permeable HDPE backing**
Long term performance for in ground use.
- **Can be used for test hole, casing and pipe repair**
Extremely versatile for special applications.
- **Extremely resistant to mechanical stress and soil movements**
Field tested & application ready!

Product selection guide

	RJS-E
Max. operating temperature	50°C
Joint design	Oversized casings, shrink casings and crosslinked shrink casings
Min. preheat temperature	65°C
Recommended pipe preparation	Cleaning & Abrading
Product recommended for	Transportation, distribution and service lines
Performance	100 cycles acc EN489 –edition 2009 on shrink casings without or with adhesive strips

Product thickness

RJS-E/ A

Backing (as supplied) **0.55 mm**
Backing (fully free recovered) **0.75 mm**
Mastic sealant (as supplied) **1.1 mm**
Copolymer adhesive (as supplied) **0.7 mm**

RJS-E/ B

Backing (as supplied) **0.75 mm**
Backing (fully free recovered) **1.0 mm**
Mastic sealant (as supplied) **1.5 mm**
Copolymer adhesive (as supplied) **0.8 mm**

RJS-E/ C

Backing (as supplied) **0.9 mm**
Backing (fully free recovered) **1.2 mm**
Mastic sealant (as supplied) **1.5 mm**
Copolymer adhesive (as supplied) **0.8 mm**

Product properties: RJS-E (1)

Property	Test method	Typical value
Backing		
Tensile strength	ASTM D-638	22.8 MPa
Elongation	ASTM D-638	600%
Hardness	ASTM D-2240, Shore D	55
Shrink force	ASTM D-638, 150°C	0.276 MPA
Thermal ageing	ASTM D-3045, 150°C	21 days
Followed by elongation	ASTM D-638, 23°C	> 450%
Weathering (UV) resistance	ASTM D-2565	30 days
Followed by elongation	ASTM D-638, 23°C	> 450%
Water absorption	ASTM D-570	0.05%

Product properties: RJS-E (2)

Property	Test method	Typical value	
Adhesive		Visco-elastic	Copolymer
Softening point	ASTM E-28	92°C	94°C
Peel strength (to PE)	EN 12068 @ 10 mm /min	0.9 N/mm	7 N/mm
Shear strength	EN12068	8 N/cm ²	120 N/cm ² 55 N/cm ² @ 50°C
Sleeve			
Soil stress resistance	EN 489-edition 2009 - 0.5% sand humidity 100 cycles	Pass	
External pressure test after soil stress	EN 489, @ 23°C, 0.3 bar, 24 hrs.	Pass	

Ordering information

RJS-E type products are available:

- as Uni-sleeve (pre-cut sleeve with pre-attached closure patch)
- as a roll (closure patches to be ordered separately)

* Unisleeve

Example: RJS-E-155-DIA140/A(S2-C60)

		Standard ordering options
/A	Sleeve construction	/A, /B, /C
155	Uni-sleeve width in mm (Sw)	155mm, 230 mm, 300 mm (only /C)
DIA140	Casing pipe diameter in mm	Ø 90 - Ø 1200 mm
(S2-C60)	Packaging quantity	S2: 2 pc per plastic bag - C60: 60 pieces or 2 x 30 pairs per case

* Roll form (closure patches to be ordered separately)

Example: RJS-E-155X40M/A-RL(C2)

/A	Roll construction	/A, /B, /C
155	Roll width in mm (Sw)	155mm, 230 mm, 300 mm (only /C)
40M	Roll length in meter (Sl)	/A: 40 M, /B and /C: 30 M
(C2)	Packaging quantity	2 rolls per case for /A and /B, 1 roll per case for /C

* Closure patch

Example: WPCP-IV-100X153(S50)

100	Closure patch width in mm (Pw)	100 mm, 150 mm, 200 mm
153	Closure patch length in mm (Pl)	153 mm, 228 mm, 298 mm
S50	Packaging quantity	50 pc per bag

Sleeve cut lengths and appropriate closure patch widths depend on the pipe size, see latest application table AT-DH-JOINT. For proper product installation, see latest installation instruction.

DS-RJS-E-REV3-MAY10



CORROSION PROTECTION GROUP
www.berrycpg.com

The leading global partner in protecting the integrity of critical infrastructure.

Berry Plastics warrants that the product(s) represented within conform(s) to its/their chemical and physical description and is appropriate for the use as stated on the respective technical data sheet when used in compliance with Berry Plastics written instructions. Since many installation factors are beyond the control of Berry Plastics, the user is obligated to determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Berry Plastics liability is stated in the standard terms and conditions of sale. Berry Plastics makes no other warranty either expressed or implied. All information contained in the respective technical data sheet(s) should be used as a guide and is subject to change without notice. This document supersedes all previous revisions. Please see revision date on the right.

Local Distributor / Representative:

For contact details of local Distributors / Representatives
Please visit www.berrycpg.com.

Headquarters

Franklin, MA, USA
Tel: +1 508 918 1714
US Toll Free: +1 800 248 0149
Fax: +1 508 918 1910
CPG@berrypastics.com

Houston, TX, USA
Tel: +1 713 676 0085
US Toll Free: +1 888 676 7202
Fax: +1 713 676 0086
CPGH@berrypastics.com

Tijuana, Mexico

Tel USA +1 858 633 9797
Fax US: +1 858 633 9740
Tel Mexico: +52 664 647 4397
Fax Mexico: +52 664 607 9105
CPGTJ@berrypastics.com

Westerlo, Belgium

Tel. +32 14 722500
Fax +32 14 722570
CPGE@berrypastics.com

Baroda, India

Tel: +91 2667 264721
Fax: +91 2667 264724
CPGIN@berrypastics.com